

Mendel's hypotheses:

1. For each _____ trait, an individual has two _____ of the gene- one from each _____.

2. There are alternative _____ of genes called _____.

3. When two different _____ occur together, one of them may be completely _____, while the other may have no _____ effect on the organism's _____.

Dominant-

Recessive-

4. When _____ are formed, the alleles for each gene in an individual _____ independently of each other. Thus, gametes carry only one _____ for each inherited trait. When gametes _____ during fertilization, each gamete _____ one allele.

Writing the traits

homozygous

dominant

heterozygous

homozygous

recessive

Genotype-

Phenotype-

What is the phenotype of this child?

Characteristic	Dominant	Recessive
Dimpled cheeks	Dimples DD or Dd	No dimples dd
Tongue Roller	Roller RR or Rr	Non-roller rr
Free Earlobes	Free EE or Ee	Attached ee
Freckles	Freckles FF or Ff	Absent ff
Hair form	Curly HH or Hh	Straight hh
Widow's peak	Present WW or Ww	Absent ww

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